BRUHATH BENGALORE MAHANAGARA PALIKE YALAHANKA ZONE

Name of Work :Improvements of Rcc Drain and CC Roads to Cross Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-3. **Earthwork excavation** by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	Basavalingappa Layout								
	For CC drain								
	1st Cross	1	100.00	1.10	1.00	110.00			
	2nd Cross	2	102.00	1.10	1.00	224.40			
	3rd Cross	2	106.00	1.10	1.00	233.20			
	4th Cross	2	113.00	1.10	1.00	248.60			
	5th Cross	2	110.00	1.10	1.00	242.00			
	For New Culvert								
	1st Main Road								
	At 1st Cross	2	4.80	1.50	1.00	14.40			
	At 4th Cross	1	4.35	1.50	1.00	6.53			
	2nd Main Road								
	At 1st Cross	2	4.70	1.50	1.00	14.10			
	At 2nd Cross	2	4.30	1.50	1.00	12.90			
	At 4th Cross	2	4.50	1.50	1.00	13.50			
	At 5th Cross	1	4.60	1.70	1.00	7.82			
		1	4.35	1.50	1.00	6.53			
	For New Kerb								
	1st Main Road	2	195.70	0.20	0.20	15.66			
	2nd Main Road	2	167.00	0.20	0.20	13.36			
	Temple inside Area	1	49.00	0.20	0.20	1.96			
	For Footh Path								
	Temple inside Area	1	28.00	1.85	0.30	15.54			
						1180.49	**Cum**	**220.40**	**260179.11**
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3) (Page No.27/ Item No.5.33/ PWD SR 2018-19)								
	Basavalingappa Layout								
	Covering RCC Slab								
	1st Cross	1	100.00	0.90		90.00			
	2nd Cross	2	102.00	0.90		183.60			
	3rd Cross	1	106.00	0.90		95.40			
	4th Cross	1	113.00	0.90		101.70			
				Sub Total		**470.70**			
		Connsoder 35% Missing slabs				194.20			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						276.50	Sqm	111.30	30774.45
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
	Basavalingappa Layout								
	For CC drain								
	1st Cross	1	100.00	1.10	0.15	16.50			
	2nd Cross	2	102.00	1.10	0.15	33.66			
	3rd Cross	2	106.00	1.10	0.15	34.98			
	4th Cross	2	113.00	1.10	0.15	37.29			
	5th Cross	2	110.00	1.10	0.15	36.30			
	For New Culvert								
	1st Main Road								
	At 1st Cross	2	4.80	1.50	0.15	2.16			
	At 4th Cross	1	4.35	1.50	0.15	0.98			
	2nd Main Road								
	At 1st Cross	2	4.70	1.50	0.15	2.12			
	At 2nd Cross	2	4.30	1.50	0.15	1.94			
	At 4th Cross	2	4.50	1.50	0.15	2.03			
	At 5th Cross	1	4.60	1.70	0.15	1.17			
		1	4.35	1.50	0.15	0.98			
	Ramp For Culvert								
	1st Main Road								
	At 1st Cross	2	4.85	1.15	0.15	1.57			
		2	4.85	0.95	0.15	1.38			
	At 4th Cross	2	4.35	1.30	0.15	1.70			
	2nd Main Road								
	At 1st Cross	2	4.20	0.90	0.15	1.13			
		2	4.20	0.75	0.15	0.95			
	At 2nd Cross	2	4.30	0.45	0.15	0.58			
		2	4.30	0.75	0.15	0.97			
	At 4th Cross	2	4.40	0.90	0.15	1.19			
		2	4.40	0.75	0.15	0.99			
	At 5th Cross	2	4.60	1.00	0.15	1.38			
		2	4.70	1.00	0.15	1.41			
	For New Kerb								
	1st Main Road	2	195.70	0.20	0.15	11.74			
	2nd Main Road	2	167.00	0.20	0.15	10.02			
	Temple inside Area	1	49.00	0.20	0.15	1.47			
	For Footh Path								
	Temple inside Area	1	28.00	1.80	0.15	7.56			
						254.23	Cum	5422.50	1378558.04

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271)**								
	Basavalingappa Layout								
	For Bottom Raft								
	For CC drain								
	1st Cross	1	100.00	0.90	0.15	13.50			
	2nd Cross	2	102.00	0.90	0.15	27.54			
	3rd Cross	2	106.00	0.90	0.15	28.62			
	4th Cross	2	113.00	0.90	0.15	30.51			
	5th Cross	2	110.00	0.90	0.15	29.70			
	For New Culvert								
	1st Main Road								
	At 1st Cross	2	4.85	1.20	0.20	2.33			
	At 4th Cross	1	4.35	1.20	0.15	0.78			
	2nd Main Road								
	At 1st Cross	2	4.70	1.20	0.15	1.69			
	At 2nd Cross	2	4.30	1.20	0.15	1.55			
	At 4th Cross	2	4.50	1.20	0.15	1.62			
	At 5th Cross	1	4.60	1.50	0.15	1.04			
		1	4.35	1.20	0.15	0.78			
	For Wall								
	For CC drain								
	1st Cross	2	100.00	0.15	0.60	18.00			
	2nd Cross	4	102.00	0.15	0.60	36.72			
	3rd Cross	4	106.00	0.15	0.60	38.16			
	4th Cross	4	113.00	0.15	0.60	40.68			
	5th Cross	4	110.00	0.15	0.60	39.60			
	For New Culvert								
	1st Main Road								
	At 1st Cross	4	4.85	0.30	0.60	3.49			
	At 4th Cross	2	4.35	0.30	0.60	1.57			
	2nd Main Road								
	At 1st Cross	4	4.70	0.30	0.60	3.38			
	At 2nd Cross	4	4.30	0.30	0.60	3.10			
	At 4th Cross	4	4.50	0.30	0.60	3.24			
	At 5th Cross	2	4.60	0.30	0.60	1.66			
		2	4.35	0.30	0.60	1.57			
	Ramp For Culvert								

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st Main Road								
	At 1st Cross	2	4.85	1.15	0.15	1.67			
		2	4.85	0.95	0.15	1.38			
	At 4th Cross	2	4.35	1.30	0.15	1.70			
	2nd Main Road								
	At 1st Cross	2	4.20	0.90	0.15	1.13			
		2	4.20	0.75	0.15	0.95			
	At 2nd Cross	2	4.30	0.45	0.15	0.58			
		2	4.30	0.75	0.15	0.97			
	At 4th Cross	2	4.40	0.90	0.15	1.19			
		2	4.40	0.75	0.15	0.99			
	At 5th Cross	2	4.60	1.00	0.15	1.38			
		2	4.70	1.00	0.15	1.41			
						344.17	**Cum**	**7070.20**	**2433322.45**
5	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P. No. 255/ I. No.34.11 of CSR 2018-19)**								
	For New Kerb								
	1st Main Road	2	195.70	0.10	0.30	11.74			
	2nd Main Road	2	167.00	0.10	0.35	11.69			
	For Footh Path								
	Temple inside Area	1	28.00	1.65	0.15	6.93			
						30.36	**Cum**	**5599.98**	**170026.59**
6	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3. TMT Bars Fe 550(**I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for drain	1	316.38	65.00		24180.00			
	Consider 90kg/Cum for Culvert	1	27.79	90.00		2501.01			
						26.68	**Tonne**	**72326.98**	**1929756.88**
7	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basavalingappa Layout								
	New Precast Slab								
	3rd Cross	1	104.00	0.90		93.60			
	4th Cross	1	111.00	0.90		99.90			
	5th Cross	2	110.00	0.90		198.00			
			Missing Slabs			194.20			
						585.70	**Sqm**	**2337.00**	**1368780.90**

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 25cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	For New Culvert								
	1st Main Road								
	At 1st Cross	2	4.80	1.20		11.52			
	At 4th Cross	1	4.35	1.20		5.22			
	2nd Main Road								
	At 1st Cross	2	4.70	1.20		11.28			
	At 2nd Cross	2	4.30	1.20		10.32			
	At 4th Cross	2	4.50	1.20		10.80			
	At 5th Cross	1	4.60	1.50		6.90			
		1	4.35	1.20		5.22			
						61.26	Sqm	5418.00	331906.68
9	Providing and fixing pre cast solid concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete. (Page No.27/ Item No.5.29.1/ PWD SR 2018-19)								
	For New Kerb								
	1st Main Road	2	195.70			391.40			
	2nd Main Road	2	167.00			334.00			
	Temple inside Area	1	49.00			49.00			
						774.40	Mtr		
			Note: 774.20/0.45=1721 No'			1721.00	No's	477.00	820917.00
10	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.120, Item No.15.8 0f KPWD S.R 2018-19)								
	kerb painting								
	For New Kerb								
	1st Main Road	2	195.70		0.40	156.56			
	2nd Main Road	2	167.00		0.40	133.60			
	Temple inside Area	1	49.00		0.40	19.60			
						309.76	Sqm	39.22	12148.79
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications (I No-24.1,P No-180 KPWD S.R 2018-19)								
	kerb painting								
			Qty Same as vide item no.11			309.76			
						309.76	Sqm	84.80	26267.65
								Total Construction Cost	8545638.54
								GST Charges 12%	1025476.62
								KRIDL Charges 4%	341825.54
								Towords PMC cost 1%	85456.39
								Sub Total	9998397.09

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Utility Shifting,Miscellaneous and Rounding off								2230.67
GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer
Ward No.3

Asst. Executive Engineer,
Yelahanka Satellite town Sub division,
Bangalore-64

Executive Engineer,
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 100.00 Lakhs
one crore only
is accorded under head P-1878 18per
works 2018-19
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. EE/YNK/AG/19/2019-20 Dt 19-10-2019

Executive Engineer

Technical Sanction
Accorded For RS Yelahanka only
Head of A/C P1878
CER NO : 91 Dt 23.10.2019

TA to CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

Excecutive Engineer Division Yalahanka

Name of Work :Improvements of Rcc Drain and CC Roads to Cross Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

RATE ANALYSIS

Based on Schedule of Rates for the year 2018- 2019 PW, P&IWTD Bangalore Circle

Sl. No.	Description of work	Unit	SR	Item	Basic Rate	Loading and Unloading	Sub total	Area Weightage 6%	Total Rate
			Page No	No.	In Rs.	6%	In Rs		In Rs.
1	**Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 10km lead= 57+2.0x1.28x10 =82.60	Cum	144	19.1	130.00	82.60	212.60	7.80	220.40
2	Removing And Refixing stone slabs of drains and pointing in C.M (1:3)	Sqm	27	5.33	105.00		105.00	6.30	111.30
3	Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	Cum	222	27.18	5115.00		5115.00	306.90	5421.90
4	Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm	Cum	271	37.59.2	6670.00		6670.00	400.20	7070.20
5	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Specification No. KBS 4.1, 4.2. (P. No. 255/ I. No.34.11 of CSR 2018-19)	Cum	255	34.11	5283.00		5283.00	316.98	5599.98
6	Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specification	Tonne	229	28.8.2	68233.00		68233.00	4093.98	72326.98
7	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,Including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	Data Rate						2337.00

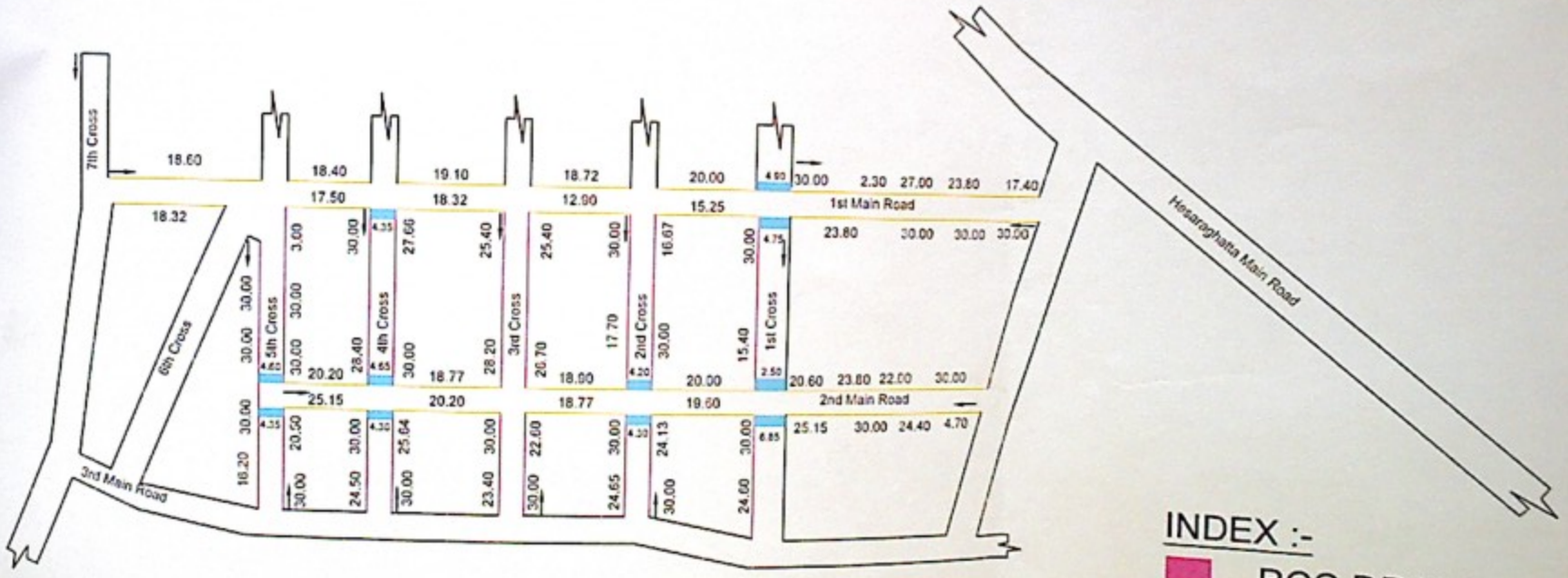
No.	Description of work	Unit	SR	Item	Basic Rate	Loading and Unloading	Sub total	Area Weightage 6%	Total Rate
			Page No	No.	In Rs.	6%	In Rs		In Rs.
8	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 25cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	Data Rate						5418.00
9	Providing and fixing pre cast solid concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete. (Page No.27/ Item No.5.29.1/ PWD SR 2018-19)	No's	27	5.29.1	450.00		450.00	27.00	477.00
10	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. (Page No.120, Item No.15.8 0f KPWD S.R 2018-19)	Sqm	120	15.8	37.00		37.00	2.22	39.22
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications (I No-24.1,P No-180 KPWD S.R 2018-19)	Sqm	180	24.1	80.00		80.00	4.80	84.80

Assistant Engineer,
Ward No.03
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Satellite town Sub division,
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Name of Work:-Improvements of RCC Drain and CC Roads to Cross Roads at Basavalingappa Layout and Surrounding areas in ward no.03



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- RCC Culvert
- Kerb

Assistant Engineer
Ward No.03

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division

ALL DIMENSIONS IN METERS